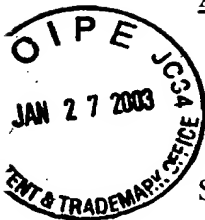


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Attorney Docket No.: 10003916-1

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: George J. HUDAK Examiner: P. J. Macchiarolo
Serial No.: 09/817,669 Art Unit: 2875
Filed: March 26, 2001 Confirmation No.: 9797
For: AIR-COOLED GAS DISCHARGE DETECTOR

Box Fee Amendment
Commissioner of Patents
Washington, D.C. 20231

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AMENDMENT AND RESPONSE

Sir:

This *Response* is filed in reply to the Office Action mailed on October 1, 2002, in the above-identified application. A petition for extension of time for one month is also filed and requested in the accompanying transmittal letter along with the corresponding fee in the amount of \$110.00.

In the Claims:

Please cancel claims 6 and 16.

Please amend claims 1, 7, 8, 9, 13, 17 and 18 as follows:

sub B2
1. (once amended) An air cooled gas discharge detector comprising:
a sapphire gas discharge tube having an outer surface;
an air passageway in contact with at least a portion of the outer surface of the gas discharge tube;
an entry aperture for introducing air into the air passageway;
an exit aperture for allowing air to flow out of the air passageway; and
an air source for supplying a flow of air into the entry aperture for cooling the outer surface of the gas discharge tube.

A2 sub B2
7. (once amended) The detector of claim 5 wherein the air source is an on board air pump.

8. (once amended) The detector of claim 5 wherein the air source is a central compressor.

9. (once amended) A method of cooling a gas discharge tube in a gas discharge detector comprising: